



Figure 1b

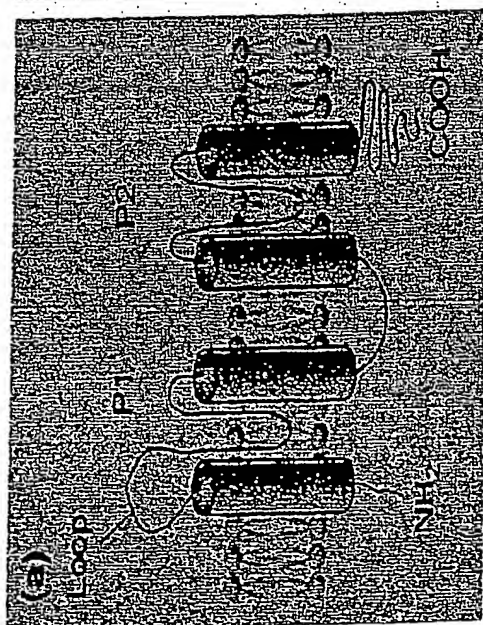


Figure 1a

TREK-1 channel structure

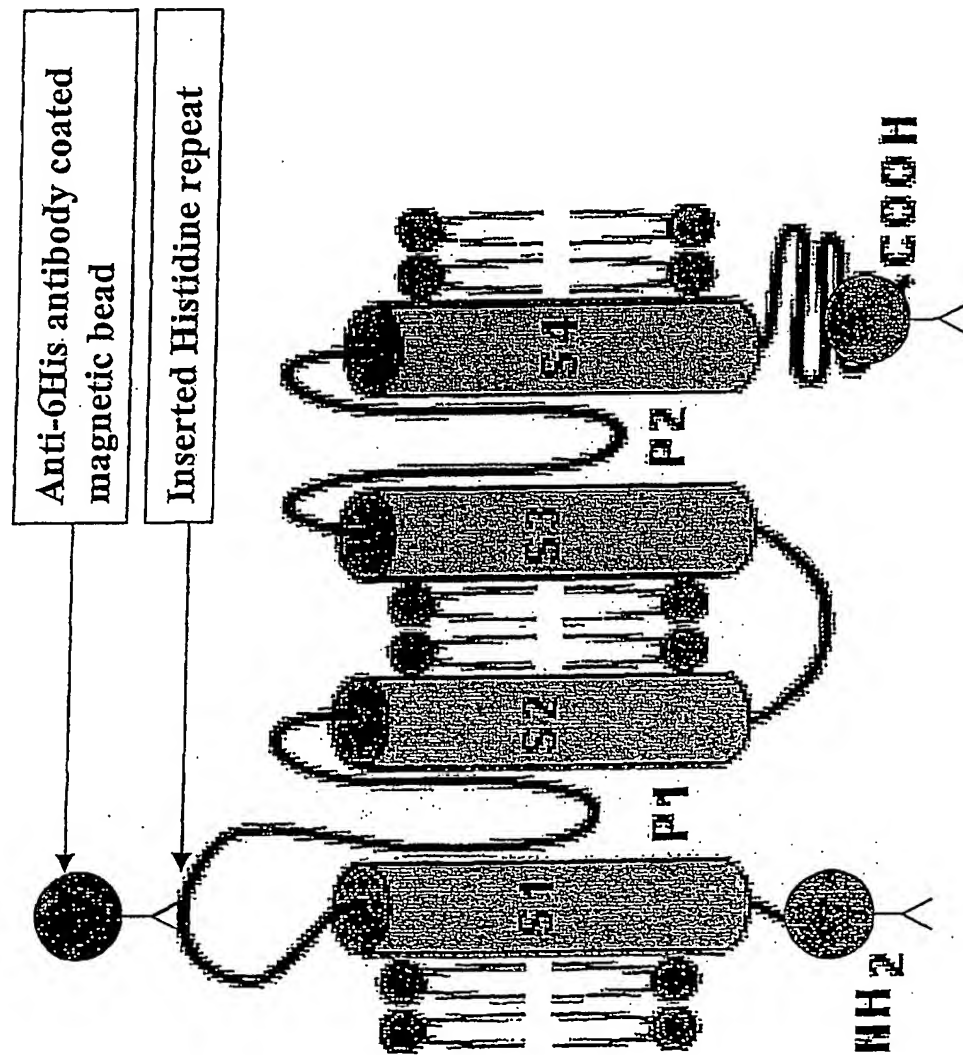


Figure 2 : Magnetic activation of Trek-1 monitored via downstream changes in intracellular calcium

- COS-7 cells cotransfected with 'Flash' pericam and 12His.Trek-1 – Red and yellow lines indicate the cells with magnetic particles attached. Green and White lines indicate the cells without magnetic particles attached.
- Magnetic field applied for 1 sec – yellow arrow.
- Application of 100uM Riluzole to the culture media – red arrow

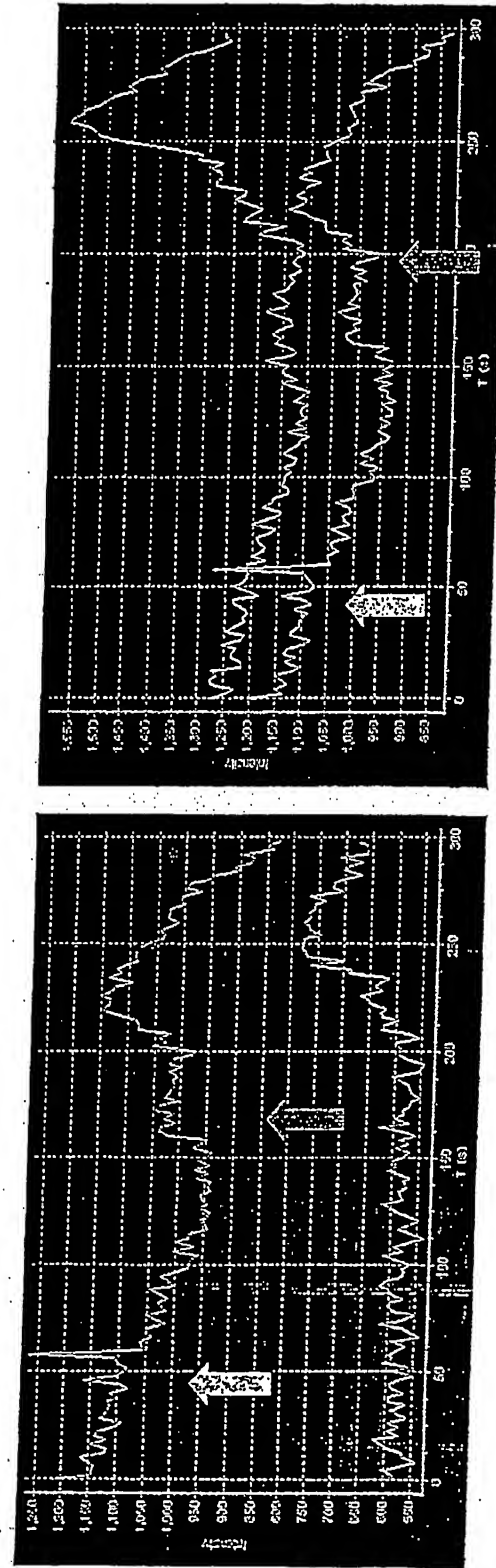


Figure 3 : Magnetic activation of TREK-1 induces transient rise in intracellular calcium in HEK293 T cells co-transfected with and Flashpericam

